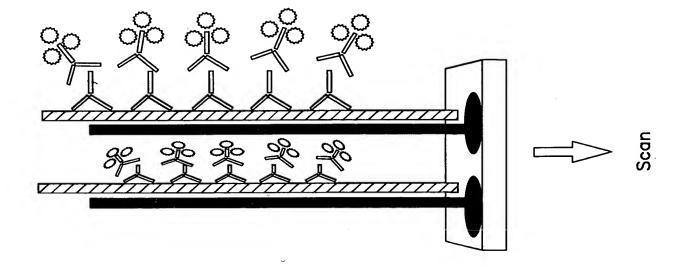


RNA:DNA Hybrid
FIG.

Detect





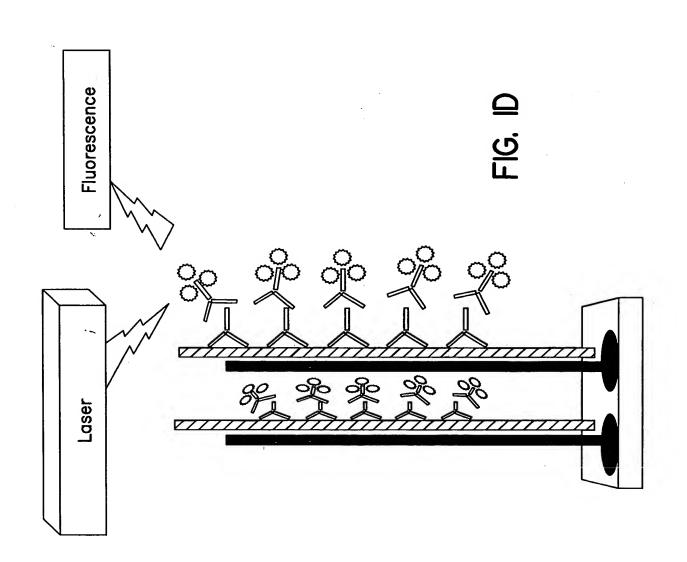
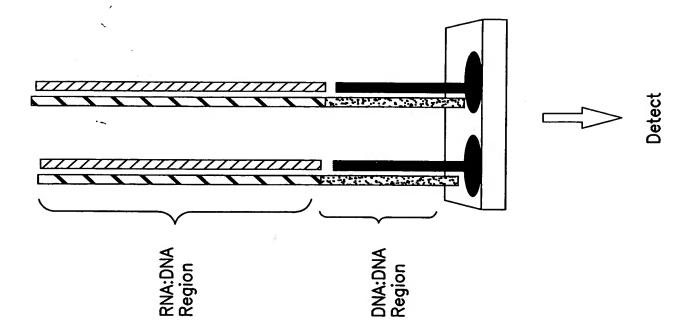
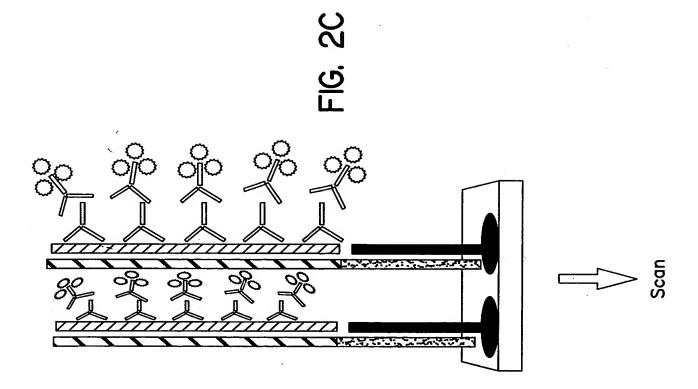
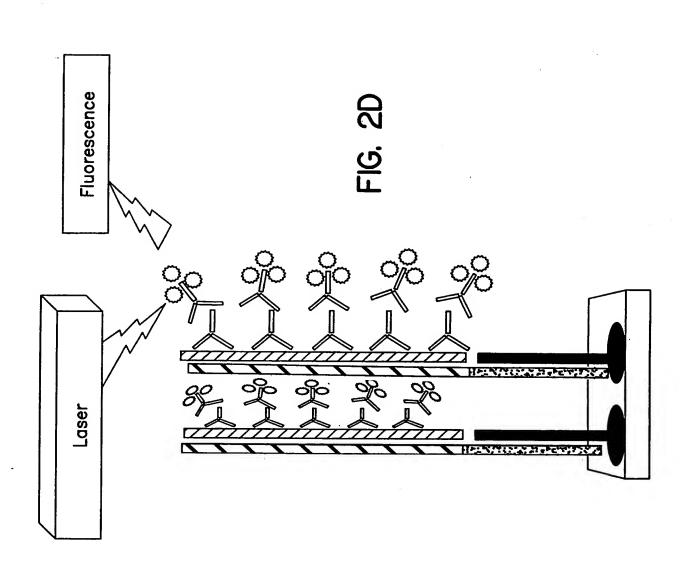


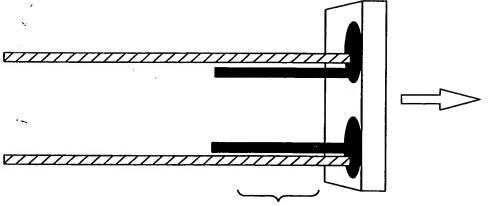
FIG. 2A

FIG. 2B









Reverse Transcriptase

FIG. 3C

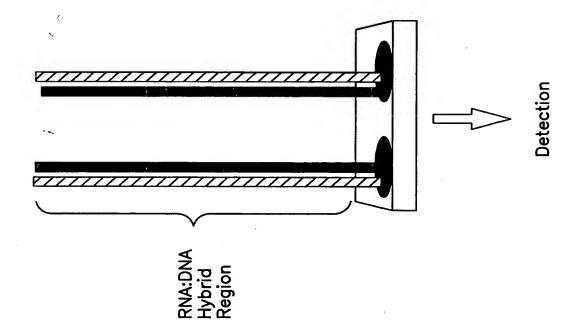
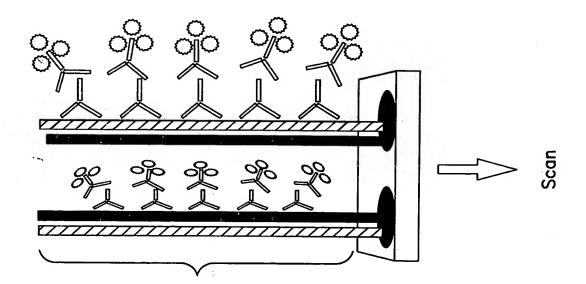
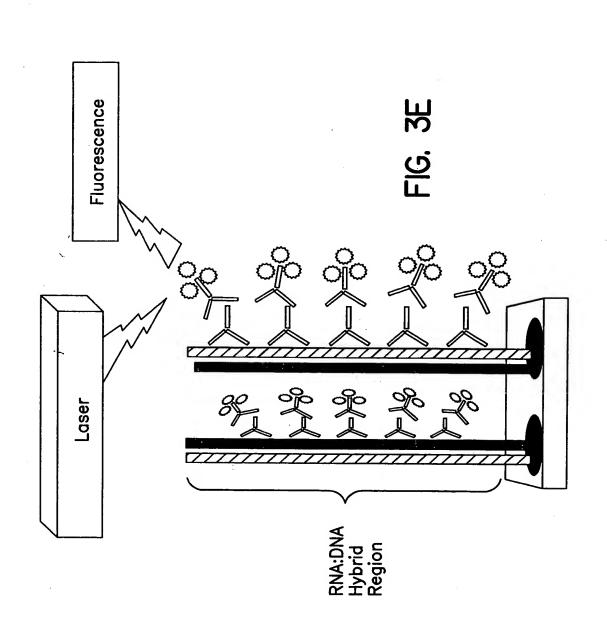


FIG. 3D



RNA:DNA Hybrid Region



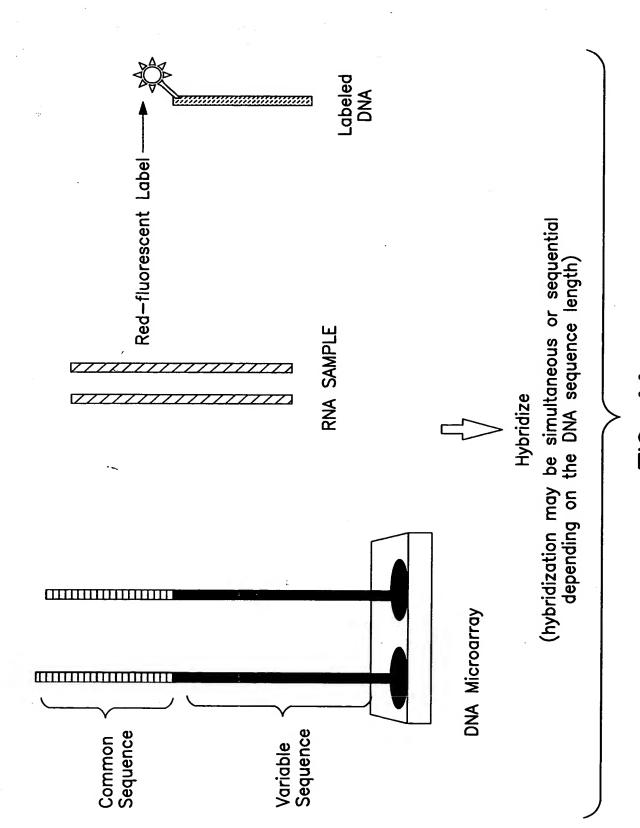
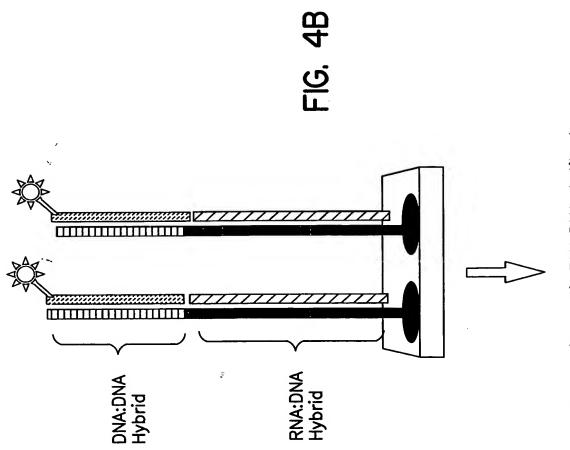


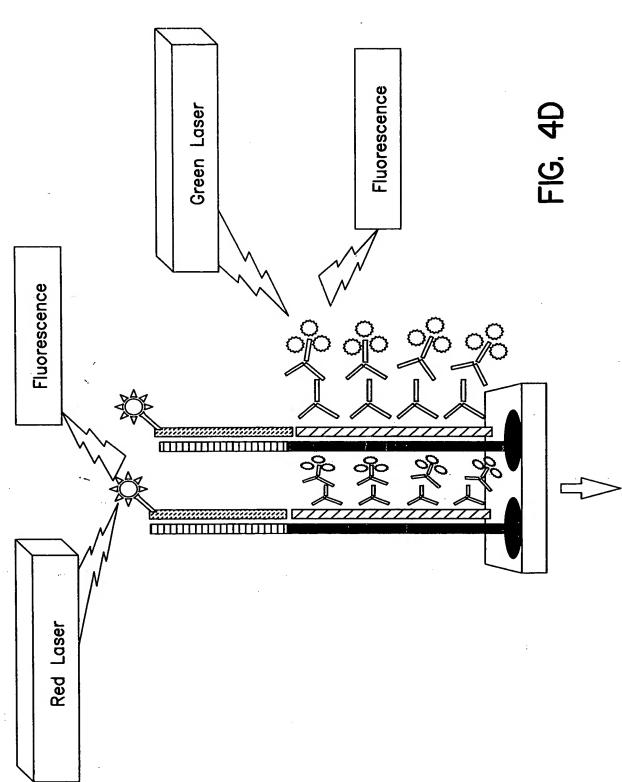
FIG. 4A



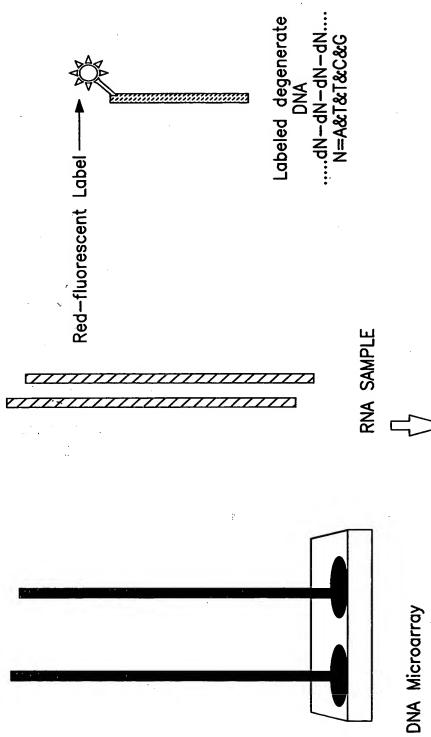
Detect with anti-RNA:DNA Antibody

FIG. 4C

Scan with red and green lasers



Normalize Signal from RNA (green) with Signal from DNA (red)



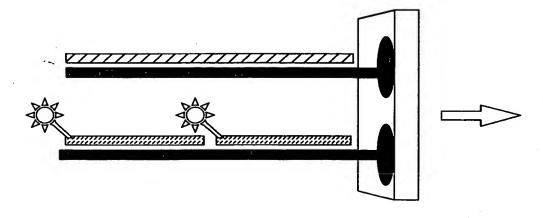


Hybridize

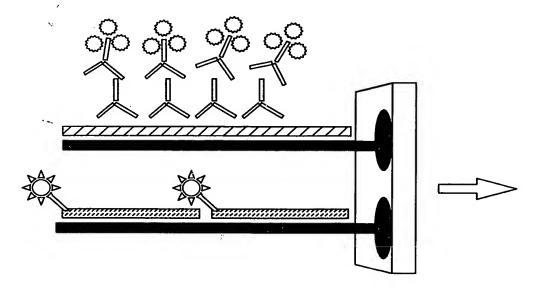
(hybridization may be simultaneous or sequential depending on the DNA sequence length)

FIG. 5A

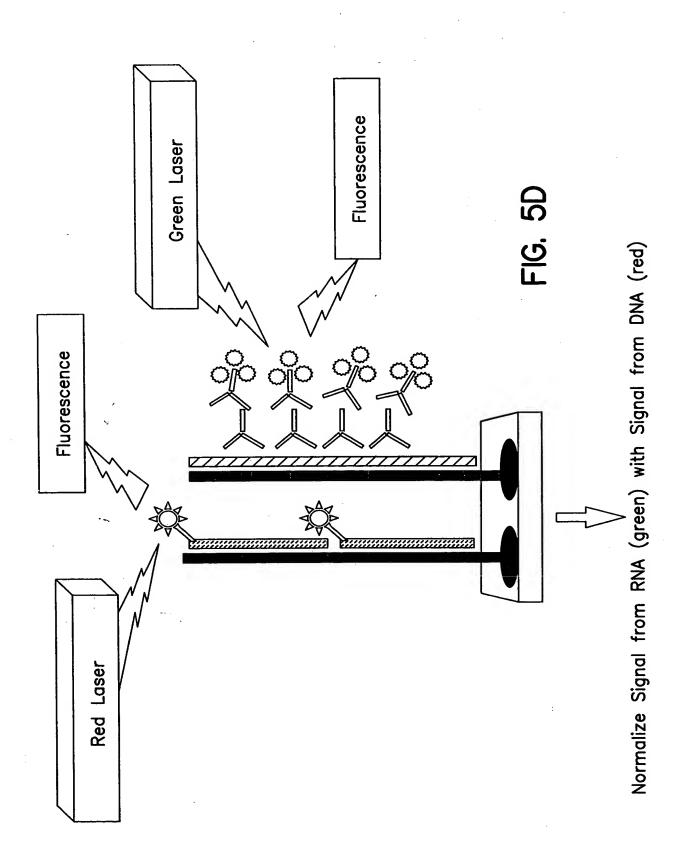
FIG. 5B

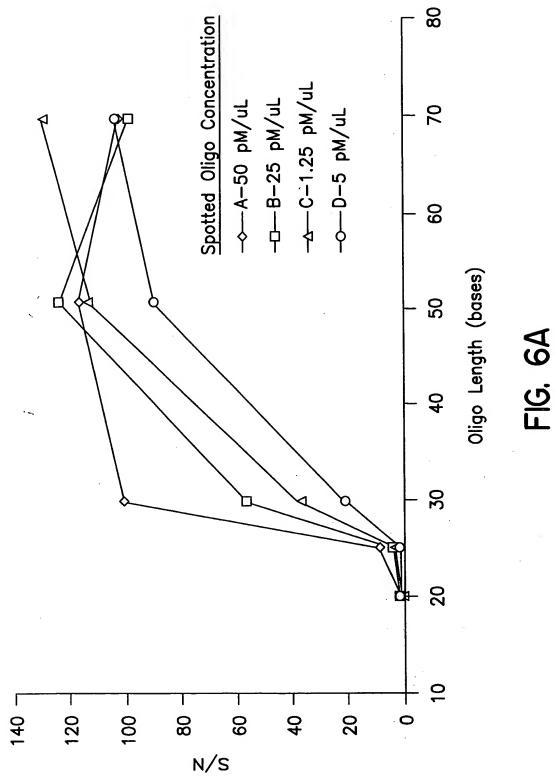


Detect with anti-RNA:DNA Antibody



Scan with Red and Green Lasers





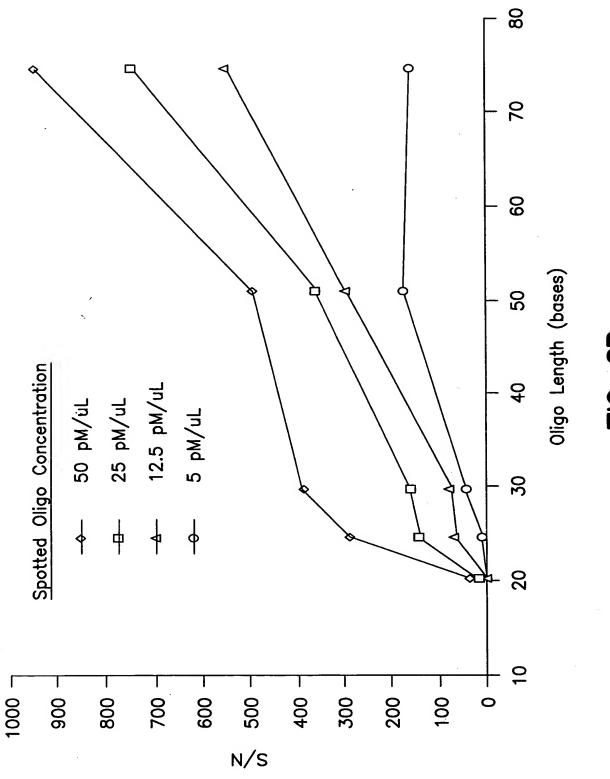


FIG. 6B